Learning to Fly: The Wright Brother's Adventure			
2006 Mathematics			
Grade Level and Grade Span Expectations			
Rhode Island Mathematics			
Grade 6			
Activity/Lesson	State	Standards	
1902: Success at Last	RI	MA.6.M(N&O)-6-6	Uses a variety of mental computation strategies to solve problems (e.g., using compatible numbers, applying properties of operations, using mental imagery, using patterns) and to determine the reasonableness of answers; and mentally calculates change back from $5.00, $10.00, $20.00, $50.00, and $100.00; multiplies a two-digit whole number by a one-digit number whole number (e.g., 45 x 5), two-digit whole numbers that are multiples of ten (e.g., 50 x 60), a three-digit whole number that is a multiple of 100 by a two- or three-digit number which is a multiple of 10 or 100, respectively (e.g., 400 x 50, 400 x 600); divides 3- and 4-digit multiples of powers of ten by their compatible factors (e.g., 360 ÷ 6; 360 ÷ 60; 3600 ÷ 6; 3600 ÷ 60; 3600 ÷ 600; 360 ÷ 12; 360 ÷ 120; 3600 ÷ 12; 3600 ÷ 120; 3600 ÷ 1200); and determines the part of a whole number using benchmark percents (1%, 10%, 25%, 50%, and 75%).

Learning to Fly: The Wright Brother's Adventure			
2006 Mathematics			
Grade Level and Grade Span Expectations			
Rhode Island Mathematics			
Grade 7			
Activity/Lesson	State	Standards	
1900: Kitty Hawks	RI	MA.7.M(G&M)-7-10	Demonstrates conceptual understanding of spatial reasoning and visualization by sketching three-dimensional solids; and draws nets of rectangular and triangular prisms, cylinders, and pyramids and uses the nets as a technique for finding surface area.
1902: Success at Last	RI	MA.7.M(N&O)-7-4b	Accurately solves problems involving proportional reasoning; percents involving discounts, tax, or tips; and rates.

Activity/Lesson	State	Standards	
1903: Powered Flight	RI	MA.7.M(N&O)-7-7	Makes estimates in a given situation (including tips, discounts, and tax) by identifying when estimation is appropriate, selecting the appropriate method of estimation, determining the level of accuracy needed given the situation, analyzing the effect of the estimation method on the accuracy of results, and evaluating the reasonableness of solutions appropriate to grade level GLEs across content strands.
Learning to Fly: The Wright Brother's Adventure			
2006 Mathematics			
Grade Level and Grade Span Expectations			
Rhode Island Mathematics			
Grade 8			
Activity/Lesson	**State**	**Standards**	
1900: Kitty Hawks	RI	MA.8.M(G&M)-8-5	Applies concepts of similarity to determine the impact of scaling on the volume or surface area of three-dimensional figures when linear dimensions are multiplied by a constant factor; to determine the length of sides of similar triangles, or to solve problems involving growth and rate.
1901: The First Improvement	RI	MA.8.M(DSP)-8-6	In response to a teacher or student generated question or hypothesis decides the most effective method (e.g., survey, observation, experimentation) to collect the data (numerical or categorical) necessary to answer the question; collects, organizes, and appropriately displays the data; analyzes the data to draw conclusions about the question or hypothesis being tested while considering the limitations that could affect interpretations; and when appropriate makes predictions; and asks new questions and makes connections to real world situations.